

AMENDMENTS TO THE CLAIMS

CLAIMS

1. (Currently Amended): A method for ammonia-mediated reduction of nitrous oxide comprising contacting a gas stream containing the nitrous oxide and ammonia with a catalyst composition comprising a BETA zeolite.
2. (Original): A method as recited in claim 1, wherein the gas stream containing nitrous oxide and ammonia has a temperature of greater than about 250°C.
3. (Original): A method as recited in claim 1, wherein the gas stream has a temperature of from about 350°C to about 600°C.
4. (Original): A method as recited in claim 1, wherein the gas stream has a temperature of about 450°C to 550°C.
5. (Currently Amended): A method as recited in claim 1, wherein the ~~ammonia/N₂O~~ ammonia/N₂O concentration ratio is up to about 2.0 based on the total volume of the gas stream.
6. (Original) A method as recited in claim 1, wherein the ammonia/ N₂O concentration ratio is at least about 0.5 based on the total volume of the gas stream.
7. (Original): A method as recited in claim 1, wherein the ammonia/ N₂O concentration ratio is from about 0.8 to about 1.0 based on the total volume of the gas stream.
8. (Cancelled)
9. (Cancelled)

10. (Original): A method as recited in claim 1, wherein the zeolite is ion-exchanged with at least one type of ion selected from the group consisting of Fe, Cu, Co, Ce, Pt, Rh, Pd, Ir, Mg and combinations thereof.

11. (Original): A method as recited in claim 1 wherein the zeolite is ion-exchanged with at least one type of ion selected from the group consisting of Fe, Ce, Cu, Co and combinations thereof.

12. (Original): A method as recited in claim 1, wherein the N_2O concentration of the gas stream is about 1% or less.

13. (Original): A method as recited in claim 1, wherein the N_2O concentration of the gas stream is about 5000 ppm or less.

14. (Original): A method as recited in claim 1, wherein the N_2O concentration of the gas stream is between about 20 ppm and about 5000 ppm.

15. (Original): A method as recited in claim 1, further comprising contacting the gas stream with a catalyst composition selective for the removal of NO_x .

16. (Currently Amended) A method as recited in claim 15, wherein the catalyst selective for the removal of NO_x has the same composition as the catalyst ~~selective for the reduction of nitrous oxide~~ composition comprising the BETA zeolite.

17. (Cancelled)

18. (Currently Amended) A method for ammonia-mediated N_2O and NO_x reduction, comprising contacting a gas stream containing ammonia with a catalyst bed composition ~~having~~ having an upstream catalyst and a

downstream catalyst sensed relative to ~~the sequence of~~ flow of the gaseous stream through the catalyst bed wherein one catalyst comprising a BETA zeolite is selective for the reduction of N_2O and the other catalyst is selective for the reduction of NO_x .

19. (Original): A method as recited in claim 18, wherein the upstream and the downstream catalysts have the same composition.

20. (Original): A method as recited in claim 18, wherein the upstream catalyst is selective for the reduction of N_2O and the downstream catalyst is selective for the reduction of NO_x .

21. (Original): A method as recited in claim 18, wherein the upstream catalyst is selective for the reduction of NO_x and the downstream catalyst is selective for the reduction of N_2O .

22. (Cancelled)

23. (Cancelled)

24. (Cancelled)